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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-23-84** **Date: 20-12-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing UGD Lines in Ward No.06.
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/188/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-2018
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-12-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.65	_
2	Finess by Air permeablity method (m^2/kg,Min)	296.7	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2 mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-23-84**	**Date: 16-01-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Providing UGD Lines in Ward No.06.	
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.	
Customer's Reference	:	BBMP/EE/BTP/WO/188/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-12-2018	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	18-12-2018	
Environmental Conditions during test	:	Temperature: Humidity:	26˚C 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-23-84**	**Date: 20-12-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Providing UGD Lines in Ward No.06.	
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.	
Customer's Reference	:	BBMP/EE/BTP/WO/188/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample condition	:	Satisfactory	
Date of Receipt	:	17-12-2018	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	17-12-2018	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	429	429	2.9	97.1	90-100
3	20 mm	7195	7624	50.8	49.2	30-70
4	10 mm	3859	11483	76.6	23.4	10-35
5	4.75 mm	2953	14436	96.2	3.8	0-5
6	Pan	564	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-23-84** **Date: 20-12-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.53	_
6	Water Absorption(%)	0.19	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-23-84** **Date: 19-12-2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing UGD Lines in Ward No.06.
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/188/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-2018
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-12-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	3344	3499	70.0	30.0	25-55
4	4.75 mm	1377	4876	97.5	2.5	0-10
5	Pan	124	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-23-84** **Date: 19-12-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-01-23-84** **Date: 19-12-2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-12-2018

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 17-12-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	154	192	19.2	80.8	60-95	75-100	85-100	95-100
4	1.18 mm	202	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	193	587	58.7	41.3	15-34	35-59	60-79	80-100
6	300 micron	183	770	77.0	23.0	5-20	8-30	12-40	15-50
7	150 micron	141	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-01-23-84** **Date: 19-12-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	_
2	Specific Gravity	2.57	_
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID : **CP-2019-01-23-84** **Date: 22-12-2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-12-2018

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 21-12-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2019-01-23-84** **Date: 05-01-2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-2019

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 01/01/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.53	100.48	1.116	4480	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.48	100.52	1.122	4474	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.52	100.51	1.118	4478	81.5	18.2	16.9	21.2

Note:

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2019-01-23-84** **Date: 09-01-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing UGD Lines in Ward No.06.
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/188/2018-19
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-2019
Identification Mark on Brick	:	Wire Cut Brick
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	03-01-2019

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					**8.1**	

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Lab ID : **CP-2019-01-23-84** **Date: 09-01-2019**

Sample ID No : **#REF!**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.263	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.195	9.9	
4	2.976	3.274	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			**10.5**	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.99	24978	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.17	24998	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 31/12/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-12-2018

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/12/2018	31/12/2018	149.72 X 150.44 X 151.66	22524	**8.784**	289.1	12.8	12.4
2	PCC	M15	24/12/2018	31/12/2018	149.97 X 151.95 X 149.10	22787	**8.018**	275.5	12.1	
3	PCC	M15	24/12/2018	31/12/2018	150.08 X 149.09 X 151.24	22375	**8.595**	275.8	12.3	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 21/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-12-2018

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/12/2018	21/01/2019	151.34 X 150.27 X 150.03	22743	**8.058**	403.1	17.7	17.6
2	PCC	M15	24/12/2018	21/01/2019	150.62 X 150.96 X 150.91	22737	**8.500**	400.4	17.6	
3	PCC	M15	24/12/2018	21/01/2019	150.60 X 149.12 X 150.09	22458	**8.125**	392.2	17.5	

Note:

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Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 02/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	26/12/2018	02/01/2019	150.59 X 149.51 X 151.96	22515	**8.908**	410.2	18.2	18.3
2	RCC	M20	26/12/2018	02/01/2019	149.17 X 151.28 X 150.95	22568	**8.062**	417.7	18.5	
3	RCC	M20	26/12/2018	02/01/2019	150.59 X 151.82 X 149.24	22863	**8.104**	417.9	18.3	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 23/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	26/12/2018	23/01/2019	150.19 X 150.52 X 151.83	22606	**8.819**	520.0	23.0	22.9
2	RCC	M20	26/12/2018	23/01/2019	151.33 X 150.02 X 151.13	22702	**8.356**	507.2	22.3	
3	RCC	M20	26/12/2018	23/01/2019	149.92 X 149.68 X 150.49	22441	**8.270**	527.1	23.5	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 02/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	26/12/2018	02/01/2019	150.52 X 150.45 X 151.09	22647	**8.908**	428.2	18.9	18.5
2	RCC	M20	26/12/2018	02/01/2019	149.45 X 150.51 X 149.61	22494	**8.062**	412.8	18.4	
3	RCC	M20	26/12/2018	02/01/2019	151.15 X 151.32 X 151.23	22871	**8.104**	418.5	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 23/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	26/12/2018	23/01/2019	150.56 X 149.01 X 149.99	22434	**8.819**	526.5	23.5	23.2
2	RCC	M20	26/12/2018	23/01/2019	150.04 X 150.55 X 150.98	22588	**8.356**	505.8	22.4	
3	RCC	M20	26/12/2018	23/01/2019	151.83 X 151.79 X 150.17	23046	**8.270**	546.2	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 02/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	26/12/2018	02/01/2019	151.17 X 150.32 X 150.17	22724	**8.908**	430.9	19.0	18.7
2	RCC	M20	26/12/2018	02/01/2019	150.81 X 149.46 X 151.67	22541	**8.062**	415.0	18.4	
3	RCC	M20	26/12/2018	02/01/2019	150.22 X 149.33 X 150.15	22432	**8.104**	422.9	18.9	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 23/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	26/12/2018	23/01/2019	150.78 X 151.67 X 149.65	22870	**8.819**	526.4	23.0	23.0
2	RCC	M20	26/12/2018	23/01/2019	150.37 X 151.87 X 149.37	22837	**8.356**	510.7	22.4	
3	RCC	M20	26/12/2018	23/01/2019	149.32 X 150.85 X 151.35	22524	**8.270**	533.9	23.7	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 02/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	26/12/2018	02/01/2019	151.49 X 150.25 X 150.69	22761	**8.908**	413.4	18.2	18.3
2	RCC	M20	26/12/2018	02/01/2019	149.49 X 150.22 X 150.12	22456	**8.062**	417.2	18.6	
3	RCC	M20	26/12/2018	02/01/2019	149.51 X 150.95 X 151.55	22568	**8.104**	407.6	18.1	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 23/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	26/12/2018	23/01/2019	149.63 X 150.96 X 150.20	22589	**8.819**	525.6	23.3	23.2
2	RCC	M20	26/12/2018	23/01/2019	150.63 X 151.09 X 151.98	22759	**8.356**	513.0	22.5	
3	RCC	M20	26/12/2018	23/01/2019	150.85 X 149.09 X 149.50	22489	**8.270**	532.6	23.7	

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 03/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	27/12/2018	03/01/2019	149.98 X 150.57 X 149.22	22582	**8.908**	418.2	18.5	18.6
2	RCC	M20	27/12/2018	03/01/2019	150.77 X 150.63 X 151.25	22711	**8.062**	414.7	18.3	
3	RCC	M20	27/12/2018	03/01/2019	149.67 X 150.29 X 149.96	22495	**8.104**	425.1	18.9	

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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 24/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	27/12/2018	24/01/2019	150.07 X 150.36 X 151.64	22565	**8.819**	520.1	23.0	22.9
2	RCC	M20	27/12/2018	24/01/2019	150.71 X 149.17 X 149.83	22481	**8.356**	508.1	22.6	
3	RCC	M20	27/12/2018	24/01/2019	149.40 X 151.11 X 149.33	22576	**8.270**	519.4	23.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 03/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	27/12/2018	03/01/2019	149.78 X 149.23 X 149.23	22351	**8.908**	414.2	18.5	18.6
2	RCC	M20	27/12/2018	03/01/2019	151.02 X 150.84 X 150.60	22780	**8.062**	422.0	18.5	
3	RCC	M20	27/12/2018	03/01/2019	149.87 X 149.17 X 150.11	22355	**8.104**	420.2	18.8	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 24/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	27/12/2018	24/01/2019	151.89 X 151.78 X 150.52	23055	**8.819**	536.2	23.3	23.2
2	RCC	M20	27/12/2018	24/01/2019	149.51 X 150.25 X 149.17	22465	**8.356**	508.7	22.6	
3	RCC	M20	27/12/2018	24/01/2019	150.61 X 149.56 X 149.86	22525	**8.270**	530.4	23.5	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 03/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	27/12/2018	03/01/2019	149.69 X 151.50 X 151.73	22678	**8.908**	418.5	18.5	
2	RCC	M20	27/12/2018	03/01/2019	150.31 X 151.24 X 151.06	22733	**8.062**	431.1	19.0	18.8
3	RCC	M20	27/12/2018	03/01/2019	150.57 X 151.34 X 150.52	22787	**8.104**	431.4	18.9	

Note:

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 24/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	27/12/2018	24/01/2019	151.32 X 150.98 X 149.20	22847	**8.819**	538.5	23.6	23.1
2	RCC	M20	27/12/2018	24/01/2019	149.90 X 149.31 X 149.87	22381	**8.356**	492.7	22.0	
3	RCC	M20	27/12/2018	24/01/2019	151.10 X 151.64 X 150.17	22913	**8.270**	544.3	23.8	

Note:

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 03/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	27/12/2018	03/01/2019	149.14 X 151.37 X 149.32	22575	**8.908**	410.4	18.2	18.5
2	RCC	M20	27/12/2018	03/01/2019	151.60 X 149.06 X 149.78	22597	**8.062**	412.0	18.2	
3	RCC	M20	27/12/2018	03/01/2019	150.75 X 149.67 X 151.79	22563	**8.104**	427.7	19.0	

Note:

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-84** **Date: 24/01/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Providing UGD Lines in Ward No.06.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road,17th C Main Road,3rd Y Block,Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/188/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-12-2018

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	27/12/2018	24/01/2019	151.76 X 150.28 X 149.58	22806	**8.819**	538.1	23.6	23.2
2	RCC	M20	27/12/2018	24/01/2019	149.06 X 151.54 X 149.81	22588	**8.356**	508.0	22.5	
3	RCC	M20	27/12/2018	24/01/2019	149.42 X 151.72 X 151.25	22670	**8.270**	536.2	23.7	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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****End of Report****